

### **Abstract**

A system for generating an optical signal is provided. The system includes a plurality of light emitting devices. Each light emitting device has an input and an output. The system also includes a combiner having a plurality of inputs and an output. The plurality of inputs of the combiner are coupled to the outputs of the plurality of light emitting devices. The output of the combiner provides a composite signal. The system also includes a control circuit. The control circuit is coupled to the plurality of light emitting devices. The control circuit controls the plurality of light emitting devices to shape the composite signal in time, frequency, and amplitude.